



CONSTRUCTION SIGN LAYOUT

is at a point where it is visible to approaching traffic.

Two lane highway with one lane closed. Flagger

KEY Delineator Flagger Type I Barricade Drum Type II Type A Sequencing Barricade Arrow Panel Delineator | Sign Type III Work/Hazard Barricade arDelta Area ▲ Cone

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION 10-1-86 REVISIONS DATE CHANGE 07-19-02 Reversed End Road Work & Speed Limit Signs Revised R2-1a and W20-07-25-03 01-16-04 04-01-04 Revised type F Revised fee sign & Warning sign spacing, Rev. note 6, add note PE stamp added Added W3-5 to type F, Rev. Adv. Warning Table Rev. Note 6 Showed signing for opposite direction Added W3-5-48 to 04-05-06 02-16-07 pposite direction of ype F layout

= Numerical value of speed limit or 85th percentile.

Barricade shown to be placed on roadway shall be on a moveable assembly.

The speed limit shall be re-established. The exact speed limit shall be

The reduced speed limit shall be determined dependent on the in place speed

limit before construction. The speed limit reduction should not exceed 10 mph below the existing speed limit, unless the design speed of the work zone

feature has been reduced below the 10 mph. In this case, the speed limit reduction shall not exceed 30 MPH. Where speed limits are to be reduced more than 30 MPH, a second speed limit sign shall be installed with the desired speed reduction but shall not exceed 30 MPH. The second speed limit sign shall

when warning signs are used in urban areas and the signs are not portable, flags shall be installed. The flags shall be 24 inches square, mounted perpendicular to the edges of the diamond sign, and at such a distance above the edge so that when the flag is limp it will not touch the sign. Rural areas

Existing speed limit signs within a reduced speed zone shall be covered.

mounted sign as shown on the standard drawings as specified in section

determined in the field, dependent on location and conditions.

on the top of the top barricade bar. Sign shown to be placed on the roadway shall be placed on skid mounted assemblies.

Delineator drums used for tapering traffic shall be placed at 3 equal spaces.

Delineator drums for tangents shall be spaced at 2 times dimension "S".

Panels should normally be placed at the beginning of the taper. Where

shoulder width does not provide sufficient room, the panel should be moved closer to the work area so that it can be placed on the roadway surface. Type A shall be used on roadways with slow moving traffic speeds and low

Type B shall be used on roadways with moderate traffic speeds and volumes

Type C shall be used on roadways with high traffic speeds and volumes (over

Sign to be mounted on barricades shall be mounted with the sign bottom

L= Minimum length of taper, or S x W for freeways, expressways, and all other roads with speeds of 45 mph or greater, or W x  $S^2/60$  for urban, residential, and other streets with speeds of 40 mph

W = The width of taper

volume (25 mph and 750 ADT or less).

(40 mph and 5000 ADT or less).

40'mph and 5000 ADT).

or less.

Sequencing Arrow Panels

will nŏt require flags.

This document was originally issued and sealed by MARK S GAYDOS Registration Number PE-4518, on02/16/2007and the oriainal document is stored at the North Dakota Department of Transportation

ROAD

CLOSED

R11-2-48

Barricade mounted

**DETOUR** M4-8-24

NORTH M3-1-24

田

Δ

Post mounted

ROAD

CLOSED

XXX FT

W20-3-48

Post mounted

ROAD

CLOSED

XXX FT

W20-3-48

Post mounted

00 MILES AHEAD LOCAL TRAFFIC ONLY

DETOUR

<u>icade mou</u>nted

X X M1-4-24

Post mounted

M5-1-21

Post mounted

DETOUR

XXX FT

W20-2-48

280

720

850

1000

750

1350

1500

1000

2200

2640

1500

 $\blacksquare$ 

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to 150

11

ADVANCE WARNING SIGN SPACING

TYPE E

Used where a road is closed beyond a

detour point. Signing shown for one

and maintained by the contractor.

Road Type

Urban - High Speed (over 40 mph to 50 mph)

Rural - High Speed (over 50 mph to 65 mph)

Urban - Low Speed (30 mph or less)

Urban Expressway and Freeway

Rural Expressway and Freeway (70 mph to 75 mph)

Interstate/4-Lane Divided

(Maintenance and Surveyina

(55 mph to 60 mph)

Urban - Low Speed (over 30 to 40 mph)

shall be shown in plans and installed

direction only. Sign not shown on detour

CONSTRUCTION SIGN LAYOUT Post mounted

\50'